

ABSTRACT OF THE DISCLOSURE

An apparatus for treating liquid waste includes a vessel, an AC plasma torch mounted with the vessel, and at least one nozzle mounted in the vessel. The nozzle is positioned so that liquid waste introduced through the nozzle into the vessel will be sprayed into or above a flame emitted by the AC plasma torch. Liquid waste is atomized by the nozzle and sprayed into the flame. The energy from the flame causes the organic portion of the atomized liquid waste to gasify and dissociate into elemental components. This dissociation destroys any hazardous or toxic constituency of the waste material.